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## Shamrock Consulting

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## Featured Solution: Cisco Data Center Services

**1st Cisco Sales offers Cisco Data Center solutions that are customized for your business needs. Call (888) 233-6471 to speak with a Cisco Sales Expert (CSE) who will review your requirements.**

### Q. What can happen if an application fails?

A. When a device, connection or application fails, it can take down mission critical operations. Sometimes, one systems failure will cascade to applications on other systems that rely on the data or services from the failed unit.

In data centers, businesses will continue to leverage the computing and storage infrastructure Managed Hosting operators have made large investments in, and derive increased cost savings and benefits by utilizing shared, highly available infrastructure.

Energy costs are rising for most data centers. Companies should employ tools and techniques to manage the energy cost curve.

Five issues IT managers must consider to ensure smooth data center operations are as follows: Regulatory compliance, disaster recovery/business continuance, power, Hosted Solutionscooling, and IT as a service will be dominant themes in the coming year as companies work to manage their IT assets to support business goals.

The usual goal of virtualization is to centralize administrative tasks while improving scalability and work loads.

Hypervisor software is the secret sauce that makes virtualization possible. This software, also known as a virtualization manager, sits between the hardware and the operating system, and decouples the operating system and applications from the hardware. The hypervisor assigns the amount of access that the operating systems and applications have with the processor and other hardware resources, such as memory and disk input/output.

The ideal storage management solution should back up files and information automatically and in real time. In addition, organisations need a storage management and data protection solution that enables them to cope with rapidly increasing storage volumes and the increased complexity of desktop and laptop computers.

The Cisco Unified Computing System creates a highly dynamic and cohesive integration with network and storage resources to meet the rapidly changing needs in today's data centers.

Even though Green IT has become a hot topic in 2010, its roots run back to early 90's. In 1992, the Energy Star program was launched by the U.S. Environmental Protection Agency. This program encouraged new electronic devices to be more energy-efficient by lowering energy consumption, efficient design and reduced use of hazardous material. The Energy Star program was revised in 2006 and now includes much stricter efficiency requirements and a tiered ranking system for approval.

High availability is a system design protocol and associated implementation that ensures a certain degree of operational continuity during a given measurement period.

A broad group of industry-leading partners supports the open, standards-based unified fabric architecture of the Cisco Nexus 5010 Switch. This switch also delivers more than 500 Gbps of switching capacity with 20 fixed wirespeed 10 Gigabit Ethernet ports that support Data Center Ethernet and FCoE. In addition, one expansion port supports 8-port 1/2/4 Gigabit Fibre Channel, 4-port 10 Gigabit Ethernet (Data Center Ethernet and FCoE) and 4-port 1/2/4 Gigabit Fibre Channel, and 6-port 10 Gigabit Ethernet (Data Center Ethernet and FCoE).

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